

PENTEK INTELLIDRIVE™ XL

PUMP CONTROLLERS



Variable Frequency Drives designed for large horsepower pumping applications. Power ratings to 730A with enclosures for indoor and outdoor applications.

APPLICATIONS

Turf irrigation, water transfer, light commercial water systems, and agricultural.

FEATURES

Variable Speed Control: Meets requirements of process control with constant pressure at variable flow conditions or constant flow at variable pressure conditions.

Pump System Protection: Dry Run detection, check valve ramp, pipe fill mode, Sleep mode, no/low flow detection, end of pump curve detection, integrated mains disconnect switch (optional), and real-time clock battery backup.

Phase Conversion: Single phase input drives are available that convert to 3 phase output.

Simple Setup:

- ◆ Pump and Motor Settings: Above/Below Ground, Horsepower, Voltage, Current, Nominal Speed.
- ◆ System Learning: No Load, Sleep, No Flow.

SPECIFICATIONS

AMP Ratings: 1.7-730

Voltage: 230, 460, 575

Frequency: 50/60 Hz

Standard I/O: Digital Inputs: 6; Analog Inputs: 2; Pulse Inputs: 2; Relays: 2; Digital Outputs: 2; Analog Outputs: 4

Communication: Modbus RTU

Enclosure Type: NEMA 1, 3R, 4X, IP20 Open/Chassis

ORDERING INFORMATION

| SINGLE PHASE INPUT DRIVES | | | | | SINGLE PHASE INPUT DRIVES | | | | |
|---------------------------|---------------|-------------|-------------|---------------|---------------------------|---------------|-------------|-------------|---------------|
| OUTPUT AMPS | INPUT VOLTAGE | INPUT PHASE | NEMA RATING | MODEL NUMBER | OUTPUT AMPS | INPUT VOLTAGE | INPUT PHASE | NEMA RATING | MODEL NUMBER |
| 24.2 | 230 | 1 | NEMA 1 | PID007512ND | 230 | 1 | NEMA 4X | NEMA 4X | PID007542NDBP |
| 30.8 | | | | PID010012ND | | | | | PID010042NDBP |
| 59.4 | | | | PID020012ND | | | | | PID020042NDBP |
| 88 | | | | PID030012ND | | | | | PID030042NDBP |
| 24.2 | | | NEMA 3R | PID007532NDBP | 230 | 1 | NEMA 4X | NEMA 4X | PID010032NDBP |
| 30.8 | | | | PID020032NDBP | | | | | PID020042NDBP |
| 59.4 | | | | PID030032NDBP | | | | | PID030042NDBP |
| 88 | | | | PID030032NDBP | | | | | PID030042NDBP |

230V 1-PHASE INPUT DRIVES (VARIOUS ENCLOSURES, NO DISCONNECT)

| THREE PHASE INPUT DRIVES | | | NEMA 1 | | NEMA 3R | | NEMA 4X | | OPEN CHASSIS | | |
|--------------------------|---------------|-------------|---------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|
| OUTPUT AMPS | INPUT VOLTAGE | INPUT PHASE | NO DISCONNECT | DISCONNECT | NO DISCONNECT | DISCONNECT | NO DISCONNECT | DISCONNECT | NO DISCONNECT | | |
| 4.6 | 230 | 3 | PID001013ND | PID001013FD | PID001033NDBP | PID001033FDBP | PID001043NDBP | PID001043FDBP | PID001003ND | | |
| 7.5 | | | PID002013ND | PID002013FD | PID002033NDBP | PID002033FDBP | PID002043NDBP | PID002043FDBP | PID002003ND | | |
| 10.6 | | | PID003013ND | PID003013FD | PID003033NDBP | PID003033FDBP | PID003043NDBP | PID003043FDBP | PID003003ND | | |
| 16.7 | | | PID005013ND | PID005013FD | PID005033NDBP | PID005033FDBP | PID005043NDBP | PID005043FDBP | PID005003ND | | |
| 24.2 | | | PID007513ND | PID007513FD | PID007533NDBP | PID007533FDBP | PID007543NDBP | PID007543FDBP | PID007503ND | | |
| 30.8 | | | PID010013ND | PID010013FD | PID010033NDBP | PID010033FDBP | PID010043NDBP | PID010043FDBP | PID010003ND | | |
| 46.2 | | | PID015013ND | PID015013FD | PID015033NDBP | PID015033FDBP | PID015043NDBP | PID015043FDBP | PID015003ND | | |
| 59.4 | | | PID020013ND | PID020013FD | PID020033NDBP | PID020033FDBP | PID020043NDBP | PID020043FDBP | PID020003ND | | |
| 74.8 | | | PID025013ND | PID025013FD | PID025033NDBP | PID025033FDBP | PID025043NDBP | PID025043FDBP | PID025003ND | | |
| 88 | | | PID030013ND | PID030013FD | PID030033NDBP | PID030033FDBP | PID030043NDBP | PID030043FDBP | PID030003ND | | |
| 115 | | | PID040013ND | PID040013FD | PID040033NDBP | PID040033FDBP | PID040043NDBP | PID040043FDBP | PID040003ND | | |
| 143 | | | PID050013ND | PID050013FD | PID050033NDBP | PID050033FDBP | PID050043NDBP | PID050043FDBP | PID050003ND | | |
| 170 | | | PID060013ND | PID060013FD | PID060033NDBP | PID060033FDBP | PID060043NDBP | PID060043FDBP | PID060003ND | | |
| 2.1 | | | 460 | 3 | PID001014ND | PID001014FD | PID001034NDBP | PID001034FDBP | PID001044NDBP | PID001044FDBP | PID001004ND |
| 3.4 | | | | | PID002014ND | PID002014FD | PID002034NDBP | PID002034FDBP | PID002044NDBP | PID002044FDBP | PID002004ND |
| 4.8 | PID003014ND | PID003014FD | | | PID003034NDBP | PID003034FDBP | PID003044NDBP | PID003044FDBP | PID003004ND | | |
| 8.2 | PID005014ND | PID005014FD | | | PID005034NDBP | PID005034FDBP | PID005044NDBP | PID005044FDBP | PID005004ND | | |
| 11 | PID007514ND | PID007514FD | | | PID007534NDBP | PID007534FDBP | PID007544NDBP | PID007544FDBP | PID007504ND | | |

230V 1-PHASE INPUT DRIVES (VARIOUS ENCLOSURES, NO DISCONNECT)

| THREE PHASE INPUT DRIVES | | | NEMA 1 | | NEMA 3R | | NEMA 4X | | OPEN CHASSIS |
|--------------------------|---------------|-------------|---------------|-------------|---------------|---------------|---------------|---------------|---------------|
| OUTPUT AMPS | INPUT VOLTAGE | INPUT PHASE | NO DISCONNECT | DISCONNECT | NO DISCONNECT | DISCONNECT | NO DISCONNECT | DISCONNECT | NO DISCONNECT |
| 14.5 | 460 | 3 | PID010014ND | PID010014FD | PID010034NDBP | PID010034FDBP | PID010044NDBP | PID010044FDBP | PID010004ND |
| 21 | | | PID015014ND | PID015014FD | PID015034NDBP | PID015034FDBP | PID015044NDBP | PID015044FDBP | PID015004ND |
| 27 | | | PID020014ND | PID020014FD | PID020034NDBP | PID020034FDBP | PID020044NDBP | PID020044FDBP | PID020004ND |
| 34 | | | PID025014ND | PID025014FD | PID025034NDBP | PID025034FDBP | PID025044NDBP | PID025044FDBP | PID025004ND |
| 40 | | | PID030014ND | PID030014FD | PID030034NDBP | PID030034FDBP | PID030044NDBP | PID030044FDBP | PID030004ND |
| 52 | | | PID040014ND | PID040014FD | PID040034NDBP | PID040034FDBP | PID040044NDBP | PID040044FDBP | PID040004ND |
| 65 | | | PID050014ND | PID050014FD | PID050034NDBP | PID050034FDBP | PID050044NDBP | PID050044FDBP | PID050004ND |
| 80 | | | PID060014ND | PID060014FD | PID060034NDBP | PID060034FDBP | PID060044NDBP | PID060044FDBP | PID060004ND |
| 105 | | | PID075014ND | PID075014FD | PID075034NDBP | PID075034FDBP | PID075044NDBP | PID075044FDBP | PID075004ND |
| 130 | | | PID100014ND | PID100014FD | PID100034NDBP | PID100034FDBP | PID100044NDBP | PID100044FDBP | PID100004ND |
| 160 | | | PID125014ND | PID125014FD | PID125034NDBP | PID125034FDBP | PID125044NDBP | PID125044FDBP | PID125004ND |
| 1.7 | | | 575 | 3 | PID001015ND | PID001015FD | PID001035NDBP | PID001035FDBP | PID001045NDBP |
| 2.7 | PID002015ND | PID002015FD | | | PID002035NDBP | PID002035FDBP | PID002045NDBP | PID002045FDBP | PID002005ND |
| 3.9 | PID003015ND | PID003015FD | | | PID003035NDBP | PID003035FDBP | PID003045NDBP | PID003045FDBP | PID003005ND |
| 6.1 | PID005015ND | PID005015FD | | | PID005035NDBP | PID005035FDBP | PID005045NDBP | PID005045FDBP | PID005005ND |
| 9 | PID007515ND | PID007515FD | | | PID007535NDBP | PID007535FDBP | PID007545NDBP | PID007545FDBP | PID007505ND |
| 11 | PID010015ND | PID010015FD | | | PID010035NDBP | PID010035FDBP | PID010045NDBP | PID010045FDBP | PID010005ND |
| 18 | PID015015ND | PID015015FD | | | PID015035NDBP | PID015035FDBP | PID015045NDBP | PID015045FDBP | PID015005ND |
| 22 | PID020015ND | PID020015FD | | | PID020035NDBP | PID020035FDBP | PID020045NDBP | PID020045FDBP | PID020005ND |
| 27 | PID025015ND | PID025015FD | | | PID025035NDBP | PID025035FDBP | PID025045NDBP | PID025045FDBP | PID025005ND |
| 34 | PID030015ND | PID030015FD | | | PID030035NDBP | PID030035FDBP | PID030045NDBP | PID030045FDBP | PID030005ND |
| 41 | PID040015ND | PID040015FD | | | PID040035NDBP | PID040035FDBP | PID040045NDBP | PID040045FDBP | PID040005ND |
| 52 | PID050015ND | PID050015FD | | | PID050035NDBP | PID050035FDBP | PID050045NDBP | PID050045FDBP | PID050005ND |
| 62 | PID060015ND | PID060015FD | | | PID060035NDBP | PID060035FDBP | PID060045NDBP | PID060045FDBP | PID060005ND |
| 83 | PID075015ND | PID075015FD | | | PID075035NDBP | PID075035FDBP | PID075045NDBP | PID075045FDBP | PID075005ND |
| 100 | PID100015ND | PID100015FD | | | PID100035NDBP | PID100035FDBP | PID100045NDBP | PID100045FDBP | PID100005ND |
| 131 | PID125015ND | PID125015FD | | | PID125035NDBP | PID125035FDBP | PID125045NDBP | PID125045FDBP | PID125005ND |



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